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- 3 1. A power compass saw (10) with a housing (12) that accommodates a
- 4 lifting rod for the up and down movement of a longitudinal saw blade (27)
- 5 attached thereto, the saw blade having a toothed side and a saw blade back
- 6 (270), and with a guide roller (29) which supports the saw blade back (270) and
- 7 has a central circumferential groove (290) into which the saw blade extends with
- 8 its saw blade back (270) and is guided therein, whereby the sides of the
- 9 circumferential groove (290) are tapered,
- wherein the saw blade back (270) of the saw blade is designed with a 7° conical
- 11 configuration and/or taper on both sides, so that it tapers toward the saw blade
- 12 back (270) and is capable of being supported in two dimensions in the
- circumferential groove (290), the groove sides (291) of which have a 5° taper.

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- 15 2. The power compass saw as recited in Claim 1,
- wherein the taper of the saw blade back (270) is formed in a noncutting manner,
- 17 and is stamped in particular.

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- 19 3. The power compass saw as recited in Claim 1,
- wherein the guide roller (29) serves as reciprocating stroke-support roller.

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- 22 4. The power compass saw as recited in Claim 1,
- 23 wherein the saw blade back (270) is wider than the groove bottom (292) of the
- 24 circumferential groove (290) of the guide roller (29), in particular no wider than
- 25 1.5 mm.

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- 27 5. The power compass saw as recited in Claim 1,
- wherein the groove sides (291) of the central circumferential groove (290) have a
- 29 5° taper.

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31 6. The power compass saw as recited in Claim 1,

- 1 wherein the guide roller (29) has a diameter of 10 to 25 mm, and the groove is as
- 2 deep as possible, in particular at least 5 mm deep.

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- 4 7. The power compass saw as recited in Claim 1,
- 5 wherein the groove bottom (292) is less wide than the saw blade back (270), in
- 6 particular not wider than 1.4 mm.